BRUHATH BANGALORE MAHANAGARA PALIKE
PROJECT DIVISION YELAHANKA ZONE

Name of Work: Construction of Bus Shelters in Various Places of Yelahanka Assembly Constituency.

DETAILED ESTIMATE

Estimated Cost= 10000000.00

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
1	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. **In ordinary/soft rock without blasting upto 1.5 m depth** (KPWD SR 2021-22, Volume-II, Item No.1.5.1, Page No.6)								
		Cum							
	Bus Shelter								
	Column		3	0.80	0.80	1.20	2.30		
	For Foundation		2	11.80	0.60	0.60	8.50		
			2	3.00	0.60	0.60	2.16		
							12.96		
						For 5Nos	**64.80**		
						Total Quantity	**64.80**	**251.90**	**16323.12**
	Rate Analysis								
	Basic Rate	229.00							
	Area Weightage @10%	22.90							
	Total Amount	**251.90**							
2	Providing and laying in position **plain cement concrete Mix 1:3:6 (M10)** Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)								
		Cum							
	Bus Shelter								
	Column		3	0.80	0.80	0.15	0.29		
	For Foundation		2	11.80	0.60	0.15	2.12		
			2	3.00	0.60	0.15	0.54		
	For Flooring		1	12.00	3.00	0.15	5.40		
							8.35		
						For 5Nos	**41.76**		
						Total Quantity	**41.76**	**6327.20**	**264223.87**
	Rate Analysis								
	Basic Rate	5752.00							
	Area Weightage @10%	575.20							
	Total Amount	**6327.20**							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
3	Providing and laying in position Reinforced cement concrete **M25 Using 20 mm** nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.3, Page No.17)								
		Cum							
	Bus Shelter								
	Column Footing		3	0.80	0.80	0.45	0.86		
	Pedestral		3	0.60	0.60	0.80	0.86		
							1.73		
						For 5Nos	**8.64**		
						Total Quantity	**8.64**	**7136.77**	**61661.67**
	Rate Analysis								
	Basic Rate	6299.00							
	For Centering Work 3% from P No.115, It No.1b	188.97							
	Area Weightage @10%	648.80							
	Total Amount	**7136.77**							
4	Providing and laying in position **Reinforced cement concrete M25 Design** Mix Using 20 mm nominal size graded crushed coarse aggregates for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.2, Page No.17)								
		Cum							
	Bus Shelter								
	Plinth Beam		2	11.80	0.45	0.20	2.12		
			2	3.0	0.45	0.20	0.54		
							2.66		
						For 5Nos	**13.32**		
						Total Quantity	**13.32**	**8569.44**	**114144.94**
	Rate Analysis								
	Basic Rate	6492.00							
	For Centering Work 20% from P No.115, It No.12 & 13	1298.40							
	Area Weightage @10%	779.04							
	Total Amount	**8569.44**							
5	Providing **Thermo-Mechanically Treated bars of grade Fe-500D** or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)(KWPD 2021-22, V-II, Item No.11.32, Page No.84)								
		Kgs							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	Considering 80Kgs per Cum of Concrete		1	21.96		80.00	1756.80		
							1756.80		
						For 5Nos	**8784.00**		
						Total Quantity	**8784.00**	**116.60**	**1024214.40**
	Rate Analysis								
	Basic Rate	106.00							
	Area Weightage @10%	10.60							
	Total Amount	**116.60**							
6	Providing **Size Stone masonry** with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (KWPD 2021-22, V-II, Item No.5.4, Page No.9)								
		Cum							
	Bus Shelter								
	For Foundation		2	11.80	0.45	0.40	4.25		
			2	3.00	0.45	0.40	1.08		
							5.33		
						For 5Nos	**26.64**		
						Total Quantity	**26.64**	**5964.20**	**158886.29**
	Rate Analysis								
	Basic Rate	5422.00							
	Area Weightage @10%	542.20							
	Total Amount	**5964.20**							
7	Providing and laying in position **plain cement concrete Mix 1:3:6 (M10) Using 20 mm nominal size graded** crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.4, Page No.15)								
		Cum							
	Bus Shelter								
	For Flooring		1	11.80	3.00	0.10	3.54		
							3.54		
						For 5Nos	**17.70**		
						Total Quantity	**17.70**	**6518.60**	**115379.22**
	Rate Analysis								
	Basic Rate	5926.00							
	Area Weightage @10%	592.60							
	Total Amount	**6518.60**							
8	Providing and laying **Polished Granite stone flooring** in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. (KWPD 2021-22, V-II, Item No.9.24, Page No.63)								
		Sqm							
	Bus Shelter								
	For Flooring		1	11.80	3.00		35.40		
	skirting		1	11.80	0.30		3.54		
			2	3.00	0.30		1.80		
							40.74		
						For 5Nos	**203.70**		
						Total Quantity	**203.70**	**3169.10**	**645545.67**
	Rate Analysis								

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	Basic Rate	2881.00							
	Area Weightage @10%	288.10							
	Total Amount	**3169.10**							
9	Providing and fixing **Steel work welded in built up sections/ framed work,** including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (KWPD 2021-22, V-II, Item No.11.25.2, Page No.82)								
		Kgs							
	Bus Shelter								
	5Kgs/Sft (53.90Kgs/sqm) for Bus Shelter Including Columns & Truss Work		1	12.00	5.25	53.90	3395.70		
							3395.70		
						For 5Nos	**16978.50**		
						Total Quantity	**16978.50**	**146.30**	**2483954.55**
	Rate Analysis								
	Basic Rate	133.00							
	Area Weightage @10%	13.30							
	Total Amount	**146.30**							
10	Providing and fixing of **Aluminium composite panel** of approved make and colour for wall cladding for Brick/Rcc/stone walls & coloumns/ beams with necessary aluminium frame works at required level made out of 50x25x4mm C section or equivalent. The panel should consist of 3mm thick non-halogenated FR grade mineral based polymer (2 hrs fire resistance as per ASTM E119-12 and clause B, S1, do as per ENT 13501-1sandwiched between 0.50 skins thick aluminium sheet making a total panel thickness of 4mm. The surfaces will be finished with PVDF based coating on topsides and service coating on reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleats and stainless steel bolts and nuts complete with spring washer and cap nuts and all other necessary accessories, sealing shall be done with necessary rods etc., complete (KWPD 2021-22, V-II, Item No.10.15.1, Page No.71)								
		Sqm							
	Bus Shelter								
			2	11.80		5.50	129.80		
	Drop Cladding		2	11.80		1.20	28.32		
							158.12		
						For 5Nos	**790.60**		
						Total Quantity	**790.60**	**4332.90**	**3425590.74**
	Rate Analysis								
	Basic Rate	3939.00							
	Area Weightage @10%	393.90							
	Total Amount	**4332.90**							
11	Providing and fixing **stainless steel (Grade 304) railing** made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.(KWPD 2021-22, V-II, Item No.11.28, Page No.83)								
		Kgs							
	Bus Shelter								
			1	11.80		0.90	10.62		
							10.62		

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
					15kgs per Sqm		159.30		
						For 5Nos	796.50		
						Total Quantity	796.50	550.00	438075.00
	Rate Analysis								
	Basic Rate	500.00							
	Area Weightage @10%	50.00							
	Total Amount	**550.00**							
								Construction Total Amount	8747999.47
								Add GST Charges 12%	1049759.94
								Add Detailed Project Report (DPR) and PMC Charges 2.0%	200000.00
								Sub Total	9997759.41
								Miscellaneous and unforeseen charges etc.L.S	2240.59
								Grand Total	10000000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of 2020-21 of Issue Rates on 07.04.2022

CIVIL SHINE ENGINEERING CONSULTANTS Bangalore

For Civil Shine Engineering Consultants

Assistant Engineer
Project Division, Yelahanka
BBMP Bangalore

Assistant Executive Engineer
Project Division, Yelahanka
BBMP Bangalore

Executive Engineer
Project Division, Yelahanka
BBMP Bangalore

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BRUHATH BANGALORE MAHANAGARA PALIKE
PROJECT DIVISION YELAHANKA ZONE

Name of Work: Providing & Supplying of Benches to Schools and Collages in Yelahanka Assembly Constituency.

DETAILED ESTIMATE — **Estimated Cost= 10000000.00**

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
1	4 Seater Student Desk Heavy Fabricated Frame with 18mm pre laminated board top complete as per specification and the directions of Engineer-in-charge								
		Nos							
	School Desk								
							571.00		
			571						
							Total Quantity	571.00	15316.00	8745436.00
	Approved Rate								
	Basic Rate	15316.00							
	Total Amount	**15316.00**							
								Construction Total Amount		8745436.00
								Add GST Charges 12%		1049452.32
								Add Detailed Project Report (DPR) and PMC Charges 2.0%		200000.00
								Sub Total		9994888.32
								Miscellaneous and unforeseen charges etc.L.S		5111.68
								Grand Total		10000000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of 2020-21 of Issue Rates on 07.04.2022

CIVIL SHINE ENGINEERING CONSULTANTS Bangalore

For Civil Shine Engineering Consultants

Assistant Engineer
Project Division, Yelahanka
BBMP Bangalore

Assistant Executive Engineer
Project Division, Yelahanka
BBMP Bangalore

Executive Engineer
Project Division, Yelahanka
BBMP Bangalore

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BRUHATH BANGALORE MAHANAGARA PALIKE
PROJECT DIVISION YELAHANKA ZONE

Name of Work: Development and Providing Grill Fencing in 407 SFS Parks, 707 SFS Parks and Surrouding Area Parks in Ward No.03 of Yelahanaka Assembly Constituency.

BILL OF QUANTITIES

Sl No	Description of work	Unit	Quantity	Rate	Amount
1	4 Seater Student Desk Heavy Fabricated Frame with 18mm pre laminated board top complete as per specification and the directions of Engineer-in-charge	Nos	571.00	15316.00	8745436.00
	Sub Total Amount				**8745436.00**

Executive Engineer
Yelahanaka Project Division

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BRUHATH BANGALORE MAHANAGARA PALIKE
PROJECT DIVISION YELAHANKA ZONE

Name of Work: Construction of Samudhaya Bhavana Building at Attur Village in Ward No.03

DETAILED ESTIMATE

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
1	Earth work in surface excavation by mechanical means for **lowering & leveling** the ground without blasting for all works other than foundation in Ordinary/Soft rock & depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work In Ordinary/Soft rock upto 300mm depth. (KPWD SR 2021-22, Volume-I, Item No.1.13, Page No.8)								
	Site area		1	14.50	10.50		152.25		
							152.25	**298.10**	**45386.00**
		Cum							
	Rate Analysis (Issue Rate as on 06.07.2022)								
	Basic Rate	271.00							
	Area Weightage @10%	27.10							
	Total Amount	**298.10**							
2	**Earth work excavation for Foundation** by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work.**Depth exceeding 1.5 m, but not exceeding 3 m** (P.No. 9, I.No. 1.15.2 of PWP & IWTD SR 2021-22)								
	Footings -F1		7	1.80	2.00	2.00	50.40		
	Footings -F2		3	2.00	2.40	2.00	28.80		
	Footings -F3		4	2.30	2.30	2.00	42.32		
	For Short walls		3	10.50	1.00	1.00	31.50		
	For Long walls		2	12.50	1.00	1.00	25.00		
	For Sump		1	3.00	2.80	2.00	16.80		
		Cum					**194.82**	**352.00**	**68577.00**
	Basic Rate	320.00							
	Area Weightage @ 10 %	32.00							
	Total Rate	**352.00**							
3	**Filling available excavated earth** (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. (P.No. 07, I.No. 1.9 of PWP & IWTD SR 2021-22)								
	Considered 50% Qty vide I.No.1						76.13		
	Considered 50% Qty vide I.No.2						97.41		
		Cum					**173.54**	**224.40**	**38941.00**
	Basic Rate	204.00							
	Area Weightage @ 10 %	20.40							
	Total Rate	**224.40**							
4	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) **Mix 1:3:6 (M10)** Using 40 mm nominal size graded crushed coarse aggregates(P.No. 15, I.No. 2.1.3 of PWP & IWTD SR 2021-22)								
	Footings -F1		7	1.80	2.00	0.15	3.78		

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	Footings -F2		3	2.00	2.40	0.15	2.16		
	Footings -F3		4	2.30	2.30	0.15	3.17		
	For Short walls		3	10.50	1.00	0.15	4.73		
	For Long walls		2	12.50	1.00	0.15	3.75		
	For Sump		1	3.00	2.80	0.15	1.26		
		Cum					**18.85**	**6327.20**	**119261.00**
	Basic Rate	5752.00							
	Area Weightage @ 10 %	575.20							
	Grand Total Rate	**6327.20**							
5	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (P.No. 9, I.No. 5.4 of PWP & IWTD SR 2021-22)								
	For Short walls		3	10.50	0.90	0.40	11.34		
			3	10.50	0.60	0.40	7.56		
			3	10.50	0.45	0.40	5.67		
	For Long walls		2	12.50	0.90	0.40	9.00		
			2	12.50	0.60	0.40	6.00		
			2	12.50	0.45	0.40	4.50		
		Cum					**44.07**	**5964.20**	**262842.00**
	Basic Rate	5422.00							
	Area Weightage @ 10 %	**542.20**							
	Total Rate	**5964.20**							
6	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)**Mix 1:2:4 (M15)** Using 20 mm nominal size graded crushed coarse aggregates(P.No. 17, I.No. 2.4.1 of PWP & IWTD SR 2021-22)								
	For coping								
	For Short walls		3	10.50	0.45	0.10	1.42		
	For Long walls		2	12.50	0.45	0.10	1.13		
		Cum		**Total net Quantity**			**2.54**	**6705.60**	**17049.00**
	Basic Rate	6096.00							
	Area Weightage @ 10 %	**609.60**							
	Grand Total Rate	**6705.60**							
7	Providing and constructing load bearing wall with **Solid Concrete blocks of size 400x200x200mm** having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (P.No. 17, I.No. 6.32 of PWP & IWTD SR 2021-22)								
	Ground Floor								
	For Short walls		3	10.50		2.75	86.63		
	For Long walls		2	12.50		2.75	68.75		
	Deduct								
	Door-D1		-1	0.90		2.10	-1.89		
	Door-D2		-3	1.20		2.10	-7.56		
	Main door		-1	2.00		2.10	-4.20		
	Windows-W1		-9	1.50		1.50	-20.25		
	Ventilator-V1		-1	0.75		0.60	-0.45		
		Sqm					**121.03**	**1322.20**	**160019.00**
	Basic Rate	1202.00							
	Area Weightage @ 10%	120.20							
	Total Rate	**1322.20**							
	First Floor								
	For Short walls		3	10.50		2.75	86.63		

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	For Long walls		2	12.50		2.75	68.75		
	Deduct								
	Door-D1		-2	0.90		2.10	-3.78		
	Door-D		-2	1.20		2.10	-5.04		
	Maindoor		-1	2.00		2.10	-4.20		
	Windows-W1		-8	1.50		1.50	-18.00		
	Ventilator-V1		-2	0.75		0.60	-0.90		
	For parapet		1	46.00		1.20	55.20		
		Sqm					**178.66**	**1335.42**	**238580.00**
	Basic Rate	1202.00							
	Lift charges 1% for 1st floor	12.02							
	Area Weightage @ 10%	121.40							
	Total Rate	**1335.42**							
8	Providing and constructing load bearing wall with **Solid Concrete blocks of size 400x150x200mm** having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (P.No. 17, I.No. 6.33 of PWP & IWTD SR 2021-22)								
	Ground Floor								
	Partition wall								
	Toilet		4	3.00		3.20	38.40		
	Hand wash partition		1	5.00		2.10	10.50		
	Toilet		3	3.00		3.20	28.80		
		Sqm					**77.70**	**1173.70**	**91196.00**
	Basic Rate	1067.00							
	Area Weightage @ 10%	106.70							
	Total Rate	**1173.70**							
	First Floor								
	Partition wall								
	Toilet		4	3.00		3.20	38.40		
	Toilet		3	3.00		3.20	28.80		
		Sqm					**67.20**	**1185.44**	**79661.00**
	Basic Rate	1067.00							
	Lift charges 1% for 1st floor	10.67							
	Area Weightage @ 10%	107.77							
	Total Rate	**1185.44**							
9	Providing and laying in position **Reinforced cement concrete M25 Using 20 mm** nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.3, Page No.17)								
	For Column								
	C1 (from footing to Plinth)		10	0.45	0.20	1.50	1.35		
	C2 (from footing to Plinth)		4	0.45	0.30	1.50	0.81		
		Cum					**2.16**	**7621.79**	**16463.00**
	Basic Rate	6299.00							
	For Centering & Shuttering @10%	629.90							
	Area Weightage @ 10 %	692.89							
	Grand Total Rate	**7621.79**							
	For Footings								
	Footings -F1		7	1.60	1.80	0.60	12.10		

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	Footings -F2		3	1.80	2.20	0.60	7.13		
	Footings -F3		4	2.10	2.10	0.60	10.58		
		Cum					**29.81**	**7483.21**	**223060.00**
	Basic Rate	6299.00							
	For Centering & Shuttering @8%	503.92							
	Area Weightage @ 10 %	680.29							
	Grand Total Rate	**7483.21**							
10	Providing and laying in position Reinforced cement concrete for all **Sub structures of building**, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M25 Design Mix** Using 20 mm nominal size graded crushed coarse aggregates(P.No. 17, I.No. 2.4.3 of PWP & IWTD SR 2021-22)									
	For Sump								
	wall		2	3.00	0.20	2.00	2.40		
			2	2.60	0.20	2.00	2.08		
	Raft & Slab		2	3.00	3.00	0.15	2.70		
		Cum					**7.18**	**7275.35**	**52237.00**
	Basic Rate	6299.00							
	For Centering & Shuttering @5%	314.95							
	Area Weightage @ 10 %	661.40							
	Grand Total Rate	**7275.35**							
11	Providing and laying in position Reinforced cement concrete for all **Super structures** of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately)**M25 Design** Mix Using 20 mm nominal size graded crushed coarse aggregates(P.No. 17, I.No. 2.5.2 of PWP & IWTD SR 2021-22)									
	Ground Floor								
	Overall Lintel								
	Long wall		2	12.50	0.20	0.15	0.75		
	Short wall		2	10.50	0.20	0.15	0.63		
			1	1.00	0.15	0.15	0.02		
	For Beams (GROUND)								
	B1		1	14.50	0.20	0.45	1.31		
	B2		2	14.50	0.20	0.60	3.48		
	B3		1	14.50	0.20	0.45	1.31		
	B4		1	10.50	0.20	0.45	0.95		
	B5		1	10.50	0.20	0.45	0.95		
	B6		1	10.50	0.20	0.45	0.95		
	B7		1	10.50	0.15	0.45	0.71		
	For Plinth beams								
	Long wall		2	12.50	0.23	0.45	2.59		
	Short wall		3	10.50	0.23	0.45	3.26		
	For Slab(GROUND)		1	14.50	10.50	0.150	22.84		
		Cum					**39.72**	**8569.44**	**340391.00**
	Basic Rate	6492.00							
	For Centering & Shuttering @20%	1298.40							
	Area Weightage @ 10 %	779.04							
	Grand Total Rate	**8569.44**							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	For Column (GROUND)								
	C1 (from Plinth to slab)		10	0.45	0.20	3.20	2.88		
	C2 (from Plinth to slab)		4	0.45	0.30	3.20	1.73		
		Cum					**4.61**	**7855.32**	**36197.00**
	Basic Rate	6492.00							
	For Centering & Shuttering @10%	649.20							
	Area Weightage @ 10 %	714.12							
	Grand Total Rate	**7855.32**							
	For Stair case								
	Waist slab		1	9.40	1.20	0.20	2.26		
	Steps		28	1.20	0.30	0.15	1.51		
	Landing		1	2.40	1.20	0.150	0.43		
	For Chejjas								
	Windows-W1		9	2.00	0.60	0.10	1.08		
	Ventilator-V		3	0.90	0.60	0.10	0.16		
		Cum					**5.44**	**10448.87**	**56863.00**
	Basic Rate	6492.00							
	For Centering & Shuttering @45%	2921.40							
	Lift charges 1% for 1st floor	94.13							
	Area Weightage @ 10 %	941.34							
	Grand Total Rate	**10448.87**							
	First Floor								
	Overall Lintel								
	Long wall		2	12.50	0.20	0.15	0.75		
	Short wall		2	10.50	0.20	0.15	0.63		
			1	6.65	0.15	0.15	0.15		
			1	3.15	0.15	0.15	0.07		
			2	2.00	0.10	0.15	0.06		
			2	1.20	0.10	0.15	0.04		
	For Beams								
	B1		1	14.50	0.20	0.45	1.31		
	B2		2	14.50	0.20	0.60	3.48		
	B3		1	14.50	0.20	0.45	1.31		
	B4		1	10.50	0.20	0.45	0.95		
	B5		1	10.50	0.20	0.45	0.95		
	B6		1	10.50	0.20	0.45	0.95		
	B7		1	10.50	0.15	0.45	0.71		
	For Slab		1	14.50	10.50	0.150	22.84		
		Cum					**34.17**	**8655.13**	**295726.00**
	Basic Rate	6492.00							
	For Centering & Shuttering @20%	1298.40							
	Lift charges 1% for 1st floor	77.90							
	Area Weightage @ 10 %	786.83							
	Grand Total Rate	**8655.13**							
	For Column								
	C1 (from Ground slab to first		10	0.45	0.20	3.20	2.88		
	C2 (from ground slab to first		4	0.45	0.30	3.20	1.73		
		Cum					**4.61**	**7933.87**	**36559.00**
	Basic Rate	6492.00							
	For Centering & Shuttering @10%	649.20							
	Lift charges 1% for 1st floor	71.41							
	Area Weightage @ 10 %	721.26							
	Grand Total Rate	**7933.87**							

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	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	For Stair case								
	Waist slab		1	9.40	1.20	0.20	2.26		
	Steps		28	1.20	0.30	0.15	1.51		
	Landing		1	2.40	1.20	0.15	0.43		
	For Chejjas								
	Windows-W1		9	1.80	0.60	0.10	0.97		
	Ventilator-V		2	0.90	0.60	0.10	0.11		
		Cum					**5.28**	**10458.29**	**55220.00**
	Basic Rate	6492.00							
	For Centering & Shuttering @45%	2921.40							
	Lift charges 1% for 1st floor	94.13							
	Area Weightage @ 10 %	950.75							
	Grand Total Rate	**10458.29**							
12	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)(KWPD 2021-22, V-II, Item No.11.32, Page No.84)								
	Ground Floor								
	For Lintl 50kg/Cum			1.40	50.00		70.13		
	For Beams 160kg/Cum			15.48	160.00		2477.04		
	For Slabs 80kg/Cum			22.84	90.00		2055.38		
	For Chejja 40kg/Cum			1.24	40.00		49.68		
	For Columns 100kg/Cum			6.77	100.00		676.80		
	For Footings 65kg/Cum			29.81	65.00		1937.52		
	For Staircase 100kg/Cum			4.20	100.00		420.00		
	For Sump tank 100kg/Cum			7.18	100.00		718.00		
		Kgs					**8404.54**	**116.60**	**979969.00**
	Basic Rate	106.00							
	Area Weightage @ 10%	10.60							
	Total Rate	**116.60**							
	First Floor								
	For Lintle 50kg/Cum			1.70	50.00		84.83		
	For Beams 160kg/Cum			9.63	160.00		1541.40		
	For Slabs 80kg/Cum			22.84	90.00		2055.38		
	For Chejja 40kg/Cum			1.08	40.00		43.20		
	For Columns 100kg/Cum			4.61	100.00		460.80		
	For Staircase 100kg/Cum			4.20	100.00		420.00		
		Kgs					**4605.60**	**117.77**	**542383.00**
	Basic Rate	106.00							
	Lift charges 1% for 1st floor	1.06							
	Area Weightage @ 10%	10.71							
	Total Rate	**117.77**							
13	Providing **12 mm cement plaster** with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (P.No. 41, I.No. 8.1.1 of PWP & IWTD SR 2021-22)								
	Ground Floor								
	Inside area								
	Dining area		2	10.50		3.20	67.20		
			2	9.35		3.20	59.84		
			1	9.35	10.50		98.18		
	washbasin partition walls		2	10.20		3.20	65.28		
	Deduct								
	Door-D1		-1	1.20		2.10	-2.52		
	Windows-W1		-6	1.50		1.50	-13.50		
	Kitchen room		2	3.00		3.20	19.20		
			2	5.90		3.20	37.76		
			1	3.00	5.90		17.70		

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	Deduct								
	Door-D1		-1	2.00		2.10	-4.20		
	Windows-W1		-1	1.50		1.50	-2.25		
	storeroom		2	3.00		3.20	19.20		
			2	1.50		3.20	9.60		
			1	3.00	1.50		4.50		
	Deduct								
	Door-D1		-1	1.20		2.10	-2.52		
	Windows-W1		-1	1.50		1.50	-2.25		
	storeroom 2		2	3.00		3.20	19.20		
			2	2.50		3.20	16.00		
			1	3.00	2.50		7.50		
	Deduct								
	Door-D1		-1	1.20		2.10	-2.52		
	Windows-W1		-1	1.50		1.50	-2.25		
	Toilet		2	1.20		3.20	7.68		
			2	5.00		3.20	32.00		
			1	1.20	5.00		6.00		
	Deduct								
	Door-D1		-1	1.20		2.10	-2.52		
	Ventilator-V1		-7	0.75		0.60	-3.15		
	Entrance area		2	3.10		3.20	19.84		
			2	3.00		3.20	19.20		
			1	3.10	3.00		9.30		
	Deduct								
	Door-D1		-1	1.20		2.10	-2.52		
	Staircase area		2	3.80		3.20	24.32		
			2	3.00		3.20	19.20		
			1	3.80	3.00		11.40		
	Dinning hall		2	20.00		3.20	128.00		
			2	35.80		3.20	229.12		
			1	20.00	35.80		716.00		
	Deduct								
	Door-D1		-4	2.00		2.10	-16.80		
	Door-D2		-1	1.20		2.10	-2.52		
	Windows-W1		-14	1.50		1.50	-31.50		
		Sqm					**1572.20**	**239.80**	**377012.00**
	Basic Rate	218.00							
	Area Weightage @ 10%	21.80							
	Total Rate	**239.80**							
	First Floor								
	Hall		2	9.00		3.20	57.60		
			2	10.50		3.20	67.20		
			1	9.00	10.50		94.50		
	Deduct								
	Door-D		-2	1.20		2.10	-5.04		
	stair case area		-1	3.80		6.40	-24.32		
	Windows-W1		-6	1.50		1.50	-13.50		
	Room-1		2	3.00		3.20	19.20		
			2	3.30		3.20	21.12		
			1	3.00	3.30		9.90		
	Deduct								
	Door-D		-1	1.20		2.10	-2.52		
	Ventilator		-1	0.75		0.60	-0.45		
	Windows-W1		-1	1.50		1.50	-2.25		
	Room2		2	3.00		3.20	19.20		

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
							262.65	281.08	73826.00
	Basic Rate	Sqm							
	Lift charges 1% for 1st floor	253.00							
	Area Weightage @ 10%	2.53							
	Total Rate	25.55							
		281.08							
15	Providing and applying **white cement based putty** of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge. (P.No. 50, I.No. 8.51 of PWP & IWTD SR 2021-22)								
	Ground floor								
	Interior area								
	Quantity Same as Inside Plastering Qty						1572.20		
	Quantity Same as Outside Plastering Qty						156.70		
							1728.90	91.30	157848.00
	Basic Rate	Sqm							
	Area Weightage @ 10%	83.00							
	Total Rate	8.30							
		91.30							
	First floor								
	Interior area								
	Quantity Same as Inside Plastering Qty						394.06		
	Quantity Same as Outside Plastering Qty						262.65		
							656.71	92.21	60557.00
	Basic Rate	Sqm							
	Lift charges 1% for 1st floor	83.00							
	Area Weightage @ 10%	0.83							
	Total Rate	8.38							
		92.21							
16	**Wall painting** with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (P.No. 48, I.No. 8.39 of PWP & IWTD SR 2021-22)								
	Ground floor								
	Interior area								
	Quantity Same as Inside Plastering Qty						1572.20		
							1572.20	104.50	164294.00
	Basic Rate	Sqm							
	Area Weightage @ 10%	95.00							
	Total Rate	9.50							
		104.50							
	First floor								
	Interior area								
	Quantity Same as Inside Plastering Qty						394.06		
							394.06	105.55	41591.00
	Basic Rate	Sqm							
	Lift charges 1% for 1st floor	95.00							
	Area Weightage @ 10%	0.95							
	Total Rate	9.60							
		105.55							
17	Finishing walls with **textured exterior paint** of required shade :New work (Two coats applied @ 3.28 ltr/10 m^2) over and including priming coat of exterior primer applied @ 2.20kg/10 m^2 to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(P.No. 45, I.No. 8.29 of PWP & IWTD SR 2021-22)								
	Ground floor								
	Exterior area								
	Quantity Same as Outside Plastering Qty						156.70		
							156.70	228.80	35853.00
	Basic Rate	Sqm							
	Area Weightage @ 10%	208.00							
	Total Rate	20.80							
		228.80							
	First floor								
	Exterior area								
	Quantity Same as Outside Plastering Qty						262.65		

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
							262.65	231.09	60695.00
	Basic Rate	5qm							
	Lift charges 1% for 1st floor	208.00							
	Area Weightage @ 10%	2.08							
	Total Rate	21.01							
		231.09							
18	Providing and laying **vitrified floor tiles** in different sizes 500x500 mm (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., complete (P.No. 60, I.No. 9.12.1, V-2 of PWP & IWTD SR 2021-22)								
	Ground floor								
	Wash area & toilets		1	3.70	2.10		7.77		
	Deduct								
	Partition walls		-1	5.00	0.15		-0.75		
	storerooms		1	3.00	3.00		9.00		
	Deduct								
	Partition walls		-3	-3.00	0.15		1.35		
		Sqm					**17.37**	**1125.30**	**19546.00**
	Basic Rate	1023.00							
	Area Weightage @ 10%	102.30							
	Total Rate	**1125.30**							
	First floor								
	ROOMS (Toilets)		2	1.20	2.10		5.04		
		Sqm					**5.04**	**1136.55**	**5728.00**
	Basic Rate	1023.00							
	Lift charges 1%	10.23							
	Area Weightage @ 10%	103.32							
	Total Rate	**1136.55**							
19	Providing and laying **Vitrified tiles** in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joint with white cement & matching pigments etc. complete.Size of Tile **500x500 mm** (P.No. 61, I.No. 9.17.1 of PWP & IWTD SR 2021-22)								
	Ground floor								
	Wall Cladding								
	Wash Area		2	5.20		2.10	21.84		
	Toilet		2	1.20		2.10	5.04		
			2	2.20		2.10	9.24		
	Partition walls (2 sides)		6	5.00		2.10	63.00		
	Deduct								
	Door-D2		-1	1.20		2.10	-2.52		
	kitchen dado		2	3.00		2.10	12.60		
			2	3.00		2.10	12.60		
	Partition walls (2 sides)		6	1.20		2.10	15.12		
	Deduct								
	Door-D2		-1	1.20		2.10	-2.52		
		Sqm					**134.40**	**1139.60**	**153162.00**
	Basic Rate	1036.00							
	Area Weightage @ 10%	103.60							
	Total Rate	**1139.60**							
	First floor								
	Wall Cladding								
	Deduct								
	Door-D3		-1	-1.20		1.50	1.80		

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	Rooms Toilet(both toilets)		4	1.20		2.10	10.08		
			4	2.00		2.10	16.80		
	Deduct								
	Door-D3		-1	0.90		2.10	-1.89		
		Sqm					**26.79**	**1151.00**	**30835.00**
	Basic Rate	1036.00							
	Lift charges	10.36							
	Area Weightage @ 10%	104.64							
	Total Rate	**1151.00**							
20	Providing and laying **Polished Granite stone flooring** in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent. (P.No. 63, I.No. 9.23 of PWP & IWTD SR 2021-22) 9.24								
	Ground floor								
	Interior area								
	store rooms		2	3.00	3.00		18.00		
	Skirting		2	12.00		0.15	3.60		
	Kitchen		1	3.20	5.90		18.88		
	Kitchen shelfs		5	3.20	0.75		12.00		
	Kitchen Skirting		1	9.00		0.15	1.35		
	Dinning Hall		1	8.95	7.45		66.68		
	Skirting		2	16.40		0.15	4.92		
	Electrical room		1	3.80	3.00		11.40		
	Skirting		2	6.80		0.15	2.04		
	Staircase Area		1	3.80	3.00		11.40		
	Skirting		2	6.80		0.15	2.04		
		Sqm					**152.31**	**3169.10**	**482678.00**
	Basic Rate	2881.00							
	Area Weightage @ 10%	288.10							
	Total Rate	**3169.10**							
	First floor								
	Interior area								
	Room 1		1	3.00	3.25		9.75		
	Room2		1	3.00	3.25		9.75		
	MD entrance		1	3.00	3.25		9.75		
	Stage Area		1	9.00	2.20		19.80		
	Function Hall		1	9.00	7.45		67.05		
	Stage area stairs treads		4	1.50	0.30		1.80		
	Stage area risers		4	1.50	0.20		1.20		
		Sqm					**119.10**	**3200.79**	**381214.00**
	Basic Rate	2881.00							
	Lift charges	28.81							
	Area Weightage @ 10%	290.98							
	Total Rate	**3200.79**							
1	Providing and fixing 18 mm thick gang saw cut granite of any color and shade, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch up, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. (P.No. 69, I.No. 10.1.1, V-2 of PWP & IWTD SR 2021-22)								
	First floor								
	Interior area								
	Entrence		2	3.15		0.90	5.67		
	Function Hall		2	8.95		0.90	16.11		

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	Room-1		2	7.45		0.90	13.41		
			2	3.00		0.90	5.40		
	Room-2		2	1.95		0.90	3.51		
			2	3.00		0.90	5.40		
	Outside Front		2	1.95		0.90	3.51		
	Deductions		1	10.95		0.90	9.86		
	Main Door								
	Door, D		-2	1.50		0.90	-2.70		
	Door, D1		-4	0.90		0.90	-3.24		
			-4	0.75		0.90	-2.70		
		Sqm					**54.23**	**3835.17**	**207962.00**
	Basic Rate	3452.00							
	Lift charges	34.52							
	Area Weightage @ 10%	348.65							
	Total Rate	**3835.17**							
22	Providing and laying **flooring and steps** fine machine polished granite stone slabs 20 mm thick on cement mortar bed 1:6, 20 mm thick, and joints finished with cement mortar 1:3 over existing cement concrete bed , including cost of materials, mortar, labour, curing complete as per specifications.(P.No. 64, I.No. 9.30 of PWP & IWTD SR 2021-22)								
	Ground floor to First floor								
	outside structure								
	Raisers		28	1.20		0.15	5.04		
	Threads		28	1.20	0.30		10.08		
	Landing		1	2.40	1.20		2.88		
		Sqm					**18.00**	**2641.10**	**47540.00**
	Basic Rate	2401.00							
	Lift charges	0.00							
	Area Weightage @ 10%	240.10							
	Total Rate	**2641.10**							
	First floor								
	Stage area (both sides)								
	Raisers		4	1.50		0.15	0.90		
	Threads		4	1.50	0.30		1.80		
	Landing		4	1.50	1.50		9.00		
	outside First to Terrace floor								
	Raisers		28	1.20		0.15	5.04		
	Threads		28	1.20	0.30		10.08		
	Landing		1	2.40	1.20		2.88		
		Sqm					**29.70**	**4950.62**	**147033.00**
	Basic Rate	4456.00							
	Lift charges	44.56							
	Area Weightage @ 10%	450.06							
	Total Rate	**4950.62**							
23	Providing and laying **water proofing treatment to the Roof** with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge. (P.No. 133, I.No. 15.1 of PWP & IWTD SR 2021-22)								
	Terrace area		1	14.00	10.00		140.00		
		Sqm					**140.00**	**835.89**	**117025.00**
	Basic Rate	745.00							
	Lift charges 2% for 2nd floor	14.90							
	Area Weightage @ 10%	75.99							
	Total Rate	**835.89**							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
24	Providing & fixing 10 mm thick **plaster of Paris (gypsum anhydrous) ceiling** up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame.**Flat surfaces** (P.No. 133, I.No. 15.1 of PWP & IWTD SR 2021-22)								
	Ground Floor								
	Dinning Area		1	9.00	7.50		67.50		
		Sqm					**67.50**	**1046.10**	**70612.00**
	Basic Rate	951.00							
	Area Weightage @ 10%	95.10							
	Total Rate	**1046.10**							
	First Floor								
	Roof Area		1	9.00	7.45		67.05		
	Stage Area		1	9.00	2.20		19.80		
		Sqm					**86.85**	**1056.56**	**91762.00**
	Basic Rate	951.00							
	Lift charges 1% for 1st floor	9.51							
	Area Weightage @ 10%	96.05							
	Total Rate	**1056.56**							
25	Providing & fixing of **louvered ventilator** made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm.(The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) (P.No. 110, I.No. 12.85 of PWP & IWTD SR 2021-22)								
	Ventilator-V1		3	0.60		0.60	1.08		
		Sqm					**1.08**	**5410.57**	**5843.00**
	Basic Rate	4870.00							
	Lift charges 1% for 1st floor	48.70							
	Area Weightage @ 10%	491.87							
	Total Rate	**5410.57**							
26	Providing & fixing of **2.5 track x 2-panel sliding windows** made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 94mm width x 45mm height with reinforcement of 1mm thickness and Sash with overall size of 39mm x 58mm with GI reinforcement of 1.5mm and mesh sash of size 25mm x 42mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. **Maximum possible size – 1819mm x 1819mm**. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) (P.No. 111, I.No. 12.89 of PWP & IWTD SR 2021-22)								
	Ground Floor								
	Windows-W1		8	1.50		1.50	18.00		
		Sqm					**18.00**	**7394.20**	**133096.00**
	Basic Rate	6722.00							
	Area Weightage @ 10%	672.20							
	Total Rate	**7394.20**							
	First Floor								
	Windows-W1		8	1.50		1.50	18.00		
		Sqm					**18.00**	**7468.14**	**134427.00**
	Basic Rate	6722.00							
	Lift charges 1% for 1st floor	67.22							
	Area Weightage @ 10%	678.92							
	Total Rate	**7468.14**							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
27	Providing & fixing factory made **PVC Door frame** of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge. (P.No. 105, I.No. 12.54 of PWP & IWTD SR 2021-22)								
	Bathroom doors @ Ground								
	For Toilets		1	0.90		2.10	1.89		
		Sqm					**1.89**	**522.50**	**988.00**
	Basic Rate	475.00							
	Area Weightage @ 10%	47.50							
	Total Rate	**522.50**							
	Bathroom doors @ First Floor								
	For Toilets		2	0.90		2.10	3.78		
		Sqm					**3.78**	**527.73**	**1995.00**
	Basic Rate	475.00							
	Lift charges 1% for 1st floor	4.75							
	Area Weightage @ 10%	47.98							
	Total Rate	**527.73**							
28	Providing & fixing 30mm thick factory made rigid foam **Prelam Panelled Door Shutters** made from M.S. tube of 19x19mm, 19 gauge for stiles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form stiles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, Sealed to the stiles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm Aluminium hinges **-do- with both side prelam**.(P.No. 106, I.No. 12.55.1 of PWP & IWTD SR 2021-22)								
	Bathroom doors @ Ground								
	For Toilets		1	0.75		2.10	1.58		
		Sqm					**1.58**	**4183.30**	**6589.00**
	Basic Rate	3803.00							
	Area Weightage @ 10%	380.30							
	Total Rate	**4183.30**							
	Bathroom doors @ First Floor								
	For Toilets		2	0.75		2.10	3.15		
		Sqm					**3.15**	**4225.13**	**13309.00**
	Basic Rate	3803.00							
	Lift charges 1% for 1st floor	38.03							
	Area Weightage @ 10%	384.10							
	Total Rate	**4225.13**							
29	Providing **Honne wood frames** of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications.(P.No. 99, I.No. 12.11 of PWP & IWTD SR 2021-22)								
	Ground floor								
	MD		2	2.40	0.10	0.125	0.06		
			2	1.80	0.10	0.125	0.05		
	Door-D		8	1.20	0.10	0.125	0.12		
			8	2.10	0.10	0.125	0.21		
		Cum					**0.44**	**99432.30**	**43253.00**
	Basic Rate	90393.00							
	Area Weightage @ 10%	9039.30							
	Total Rate	**99432.30**							
	First floor								
	MD		2	2.40	0.10	0.125	0.06		
			2	1.80	0.10	0.125	0.05		
	Door-D		4	1.20	0.10	0.125	0.06		

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			4	2.10	0.10	0.125	0.11		
		Cum					0.27	100426.62	27115.00
	Basic Rate	90393.00							
	Lift charges 1% for 1st floor	903.93							
	Area Weightage @ 10%	9129.69							
	Total Rate	**100426.62**							
30	Providing and fixing in position fully panelled **Honne wood shutters** for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)(P.No. 100, I.No. 12.15 of PWP & IWTD SR 2021-22)								
	Ground floor								
	MD		2	1.80		2.10	7.56		
	Door-D		8	1.20		2.10	20.16		
		Sqm					27.72	5581.40	154716.00
	Basic Rate	5074.00							
	Lift charges								
	Area Weightage @ 10%	507.40							
	Total Rate	**5581.40**							
	First floor								
	MD		2	2.40		2.10	10.08		
	Door-D		4	1.20		2.10	10.08		
		Cum					20.16	5637.21	113646.00
	Basic Rate	5074.00							
	Lift charges 1% for 1st floor	50.74							
	Area Weightage @ 10%	512.47							
	Total Rate	**5637.21**							
31	Providing and fixing ISI marked M.S. pressed butt **hinges** bright finished with necessary screws etc. (P.No. 107, I.No. 12.68.1 of PWP & IWTD SR 2021-22)								
	Ground Floor		20				20.00		
		Each					20.00	41.80	836.00
	Basic Rate	38.00							
	Lift charges								
	Area Weightage @ 10%	3.80							
	Total Rate	**41.80**							
	First Floor		20				20.00		
		Each					20.00	42.22	844.00
	Basic Rate	38.00							
	Lift charges 1% for 1st floor	0.38							
	Area Weightage @ 10%	3.84							
	Total Rate	**42.22**							
2	Providing and fixing chromium plated brass 100 mm **mortice latch and lock** with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete. (P.No. 107, I.No. 12.60 of PWP & IWTD SR 2021-22)								
	Ground Floor		6				6.00		
		Each					6.00	915.20	5491.00
	Basic Rate	832.00							
	Lift charges								
	Area Weightage @ 10%	83.20							
	Total Rate	**915.20**							
	First Floor		6				6.00		
		Each					6.00	924.35	5546.00
	asic Rate	832.00							
	ft charges 1% for 1st floor	8.32							
	ea Weightage @ 10%	84.03							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	Total Rate	**924.35**							
33	Providing and fixing **aluminium tower bolts**, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete (P.No. 107, I.No. 12.63 of PWP & IWTD SR 2021-22)								
	Ground Floor		5				5.00		
							5.00	**122.10**	**611.00**
		Each							
	Basic Rate	111.00							
	Lift charges								
	Area Weightage @ 10%	11.10							
	Total Rate	**122.10**							
	First Floor		5				5.00		
							5.00	**123.32**	**617.00**
		Each							
	Basic Rate	111.00							
	Lift charges 1% for 1st floor	1.11							
	Area Weightage @ 10%	11.21							
	Total Rate	**123.32**							
34	Providing and laying **heavy duty cobble stones 75mm thick interlock pavers**, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and Usage charges of machinery complete as per specifications.(P.No. 64, I.No.9.32 of PWP & IWTD SR 2021-22)								
	pathway		1	11.00	2.00		22.00		
		Sqm					**22.00**	**1259.50**	**27709.00**
	Basic Rate	1145.00							
	Area Weightage @ 10%	114.50							
	Total Rate	**1259.50**							
5	**Earth work excavation for pipeline trenches** in all kinds of soils bymechanical means above 600 mm trench width as per drawing andtechnical specifications, including setting out, construction of shoring,strutting, barricading, caution lights, bracing, using sight rails & boningrods at every 100 mm whevere necessary as directed, removal ofstumps and other deleterious matter, dressing of sides and levellingthe bottom of trench to the extent required , utilising the availableexcavated earth locally for the work etc., and all other appurtenancescomplete in the following strata. (P.No. 10, I.No. 1.17.1 of PWP & IWTD SR 2018-19) V-1								
	For Stoneware pipes		1	25.00	0.60	0.90	13.50		
	For Inspection chambers		2	0.80	0.80	1.00	1.28		
		Cum					**14.78**	**213.40**	**3154.00**
	Basic Rate	194.00							
	Area Weightage @ 10%	19.40							
	Total Rate	**213.40**							
	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5m.Including cost of all labour complete as per specifications (P.No. 10, I.No. 1.17.1 of PWP & IWTD SR 2018-19) P-7 i-1.1 V-1								
	For Stoneware pipes		1	25.00	0.60	0.90	13.50		
	Consider 70%						9.45		
		Cum					**9.45**	**134.20**	**1268.00**
	Basic Rate	122.00							
	Area Weightage @ 10%	12.20							
	Total Rate	**134.20**							
	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS: 12701 marked, with over and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (KPWD SR 2021-22, Volume-II, Item No.13.34)								

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			1	2000.00			2000.00		
							2000.00	**8.80**	**17600.00**
	Basic Rate	**Ltr**							
	Area Weightage @ 10%	8.00							
	Total Rate	0.80							
		8.80							
38	Supply and delivery of **Centrifugal pumpset** at site brand new best make and with discharge duty confirming to ISI standards and its latest amendments. 2 HP, Size 65x50 Head 13M, Discharge 462 LPM(P.No. 164, I.No. 46.1 of PWP & IWTD SR 2021-22)								
			1				1.00		
							1.00	**16967.50**	**16968.00**
	Basic Rate	**Each**							
	Area Weightage @ 10%	15425.00							
	Total Rate	1542.50							
		16967.50							
39	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm with a pair of 15mm C.P. brass pillar taps (KPWD SR 2021-22, Volume-II, Item No.14.7.1, Page No.124)								
	Ground Floor		5				5.00		
		Each					**5.00**	**2781.90**	**13910.00**
	Basic Rate	2529.00							
	Area Weightage @ 10%	252.90							
	Total Rate	**2781.90**							
	First Floor		2				2.00		
		Each					**2.00**	**2809.72**	**5619.00**
	Basic Rate	2529.00							
	Lift charges 1% for 1st floor	25.29							
	Area Weightage @ 10%	255.43							
	Total Rate	**2809.72**							
40	Providing and fixing **Stainless Steel A ISI 304 (18/8) kitchen sink** as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : 510x1040 mm bowl depth 250 mm (P.No. 125, I.No. 14.10.1.1 of PWP & IWTD SR 2018-19) P-126 V-2								
	510x1040 mm bowl depth 250		1				1.00		
		Each					**1.00**	**5467.00**	**5467.00**
	Basic Rate	4970.00							
	Area Weightage @ 10%	497.00							
	Total Rate	**5467.00**							
41	Providing and fixing white vitreous china pedestal type **water closet (European type)** with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid(P.No. 123, I.No. 14.3.1 of PWP & IWTD SR 2021-22)								
	Ground Floor		1				1.00		
		Each					**1.00**	**5505.50**	**5506.00**
	Basic Rate	5005.00							
	Area Weightage @ 10%	500.50							
	Total Rate	**5505.50**							
	First Floor		2				2.00		
		Each					**2.00**	**5560.56**	**11121.00**
	Basic Rate	5005.00							
	Lift charges 1% for 1st floor	50.05							
	Area Weightage @ 10%	505.51							
	Total Rate	**5560.56**							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
42	Providing and fixing **Chlorinated Polyvinyl Chloride (CPVC) pipes**, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge Concealed work, including cutting chases and making good the walls etc. **15mm nominal dia pipes**.(I.No. 13.32.1 of PWP & IWTD SR 2021-22,1st Corrigendum and Addendum order - 21-04-2022)								
							50.00		
	15-mm nominal dia		1	50.00			**50.00**	**336.60**	**16830.00**
		M							
	Basic Rate	306.00							
	Area Weightage @ 10%	30.60							
	Total Rate	**336.60**							
43	Providing and fixing **Chlorinated Polyvinyl Chloride (CPVC) pipes**, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge Concealed work, including cutting chases and making good the walls etc. **20mm nominal dia pipes**.(I.No. 13.32.2 of PWP & IWTD SR 2021-22,1st Corrigendum and Addendum order - 21-04-2022)								
							50.00		
	20-mm nominal dia		1	50.00			**50.00**	**410.30**	**20515.00**
		M							
	Basic Rate	373.00							
	Area Weightage @ 10%	37.30							
	Total Rate	**410.30**							
44	Providing and fixing **Chlorinated Polyvinyl Chloride (CPVC) pipes**, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge Concealed work, including cutting chases and making good the walls etc. **25mm nominal dia pipes**.(I.No. 13.32.3 of PWP & IWTD SR 2021-22,1st Corrigendum and Addendum order - 21-04-2022)								
							50.00		
	25-mm nominal dia		1	50.00			**50.00**	**523.60**	**26180.00**
		M							
	Basic Rate	476.00							
	Area Weightage @ 10%	47.60							
	Total Rate	**523.60**							
	Providing and fixing **Chlorinated Polyvinyl Chloride (CPVC) pipes**, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge Concealed work, including cutting chases and making good the walls etc. **32mm nominal dia pipes**.(I.No. 13.32.4 of PWP & IWTD SR 2021-22,1st Corrigendum and Addendum order - 21-04-2022)								
							50.00		
	32-mm nominal dia		1	50.00			**50.00**	**611.60**	**30580.00**
		M							
	Basic Rate	556.00							
	Area Weightage @ 10%	55.60							
	Total Rate	**611.60**							
	Constructing brick masonry **chamber of internal dimension 600x450mm** and depth of 600mm (inner dimensions) with modular bricks of CD 75 in cement mortar 1:6, bed concrete 150mm thick with 1:3:6, plastering 12 mm thick with cement mortar 1:4, CC 1:2:4 coping 75mm thk for fixing CI cover & frame etc. excluding the cost of CI frame and cover.(P.No. 187, SOR CODE-T130A of PWP & IWTD SR 2021-22,Vol-V)								

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	Chambers						3.00		
			3				**3.00**	**4811.40**	**14434.00**
		Each							
	Basic Rate	4374.00							
	Area Weightage @ 10%	437.40							
	Total Rate	**4811.40**							
47	Supplying, laying and jointing **HDPE pipes** of specified grade and conforming to IS 4984-2016 with latest ammendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials with electrofusion welding, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bedns, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc HDPE Grade PE100-PN6.0,**200mm dia**..(P.No. 126, SOR Code-K060I of PWP & IWTD SR 2021-22,Vol-V)								
			1	50.00			50.00		
							50.00	**946.00**	**47300.00**
		M							
	Basic Rate	860.00							
	Area Weightage @ 10%	86.00							
	Total Rate	**946.00**							
48	Providing and fixing **brass bib cock** of approved quality : 20 mm nominal bore (P.No. 114, I.No. 13.2.2 of PWP & IWTD SR 2021-22,Vol-II)								
			15				15.00		
							15.00	**379.50**	**5693.00**
		Each							
	Basic Rate	345.00							
	Area Weightage @ 10%	34.50							
	Total Rate	**379.50**							
49	Providing and fixing **brass stop cock** of approved quality : 20 mm nominal bore(P.No. 114, I.No. 13.3.2 of PWP & IWTD SR 2021-22,Vol-II)								
			5				5.00		
							5.00	**379.50**	**1898.00**
		Each							
	Basic Rate	345.00							
	Area Weightage @ 10%	34.50							
	Total Rate	**379.50**							
	providing and fixing square-mouth S. W. **gully trap** class SP-1 complete with C.1. grating brick masonry chamber 150 x100 mm size P type With Non Modular common burnt clay bricks of designation 3.5 & with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover t5 be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:.(I.No. 13.39 of PWP & IWTD SR 2021-22,1st Corrigendum and Addendum order - 21-04-2022)								
			10				10.00		
							10.00	**2528.90**	**25289.00**
		Each							
	Basic Rate	2299.00							
	Area Weightage @ 10%	229.90							
	Total Rate	**2528.90**							
	Providing and fixing **PTMT grating** of approved quality and colour Circular type 100 mm nominal dia.(P.No. 118, I.No. 13.22.1.1of PWP & IWTD SR 2021-22,Vol-II)								
			5				5.00		
							5.00	**97.90**	**490.00**
		Nos							
	Basic Rate	89.00							
	Area Weightage @ 10%	8.90							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	Total Rate	**97.90**							
52	Providing and fixing **600x450 mm beveled edge mirror** of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. (P.No. 128, I.No. 14.31 of PWP & IWTD SR 2021-22,Vol-II)								
	Ground Floor		7				7.00		
							7.00	**1068.10**	**7477.00**
		Each							
	Basic Rate	971.00							
	Area Weightage @ 10%	97.10							
	Total Rate	**1068.10**							
	First Floor		2				2.00		
							2.00	**1068.10**	**2136.00**
		Each							
	Basic Rate	971.00							
	Area Weightage @ 10%	97.10							
	Total Rate	**1068.10**							
53	**Concealed Conduit System**: Supplying .... Mm dia 2mm2.5mm Thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc... and running before concreting th eslab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be convered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary (P.No. 1, I.No. 1.2 of PWD Ele SR 2021-22)								
	1.2.1) 19/20mm dia 2mm thick		1	75.00			75.00		
							75.00	**61.00**	**4575.00**
		M							
	Basic Rate	61.00							
	Total Rate	**61.00**							
54	1.2.2) 25mm dia 2mm thick		1	50.00			50.00		
							50.00	**70.00**	**3500.00**
		M							
	Basic Rate	70.00							
	Total Rate	**70.00**							
55	1.2.3) 32mm dia 2.5mm thick		1	50.00			50.00		
							50.00	**93.00**	**4650.00**
		M							
	Basic Rate	93.00							
	Total Rate	**93.00**							
56	57.05) **PVC pipe-50mm dia** (P.No. 21, Sl.No. 448 of BESCOM SR 2021-22)								
			1	300.00			300.00		
							300.00	**52.00**	**15600.00**
		Mtr							
	Basic Rate	52.00							
	Total Rate	**52.00**							
57	57.07) **PVC pipe-75mm dia** (P.No. 21, Sl.No. 450 of BESCOM SR 2021-22)								
			1	75.00			75.00		
							75.00	**80.00**	**6000.00**
		Mtr							
	Basic Rate	80.00							
	Total Rate	**80.00**							
58	57.07) **PVC pipe-100mm dia** (P.No. 20, Sl.No. 452,of BESCOM SR 2021-22)								
			1	75.00			75.00		
							75.00	**128.00**	**9600.00**
		Mtr							
	Basic Rate	128.00							
	Total Rate	**128.00**							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
59	Supplying heavy gauge **PVC Conduit Pipe** .... dia ..... mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering upto the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. (P.No. 1, I.No. 1.3 of PWD Ele SR 2021-22)								
	1.3.1) 19/20 mm dia 2 mm thick		1	75.00			75.00		
							75.00	**75.00**	**5625.00**
		M							
	Basic Rate	75.00							
	Total Rate	**75.00**							
60	1.3.2) 25 mm dia 2 mm thick		1	75.00			75.00		
							75.00	**80.00**	**6000.00**
		M							
	Basic Rate	80.00							
	Total Rate	**80.00**							
61	1.3.3) 32 mm dia 2.5 mm thick		1	50.00			50.00		
							50.00	**105.00**	**5250.00**
		M							
	Basic Rate	105.00							
	Total Rate	**105.00**							
62	1.3.4) 40 mm dia 2.5 mm thick		1	50.00			50.00		
							50.00	**119.00**	**5950.00**
		M							
	Basic Rate	119.00							
	Total Rate	**119.00**							
63	Supplying and wiring **adopting loop system** in existing pvc conduit/casing caping using 1100v grade,COPPER conducter flexible multistrand FRLS PVC insulated,2x1.5Sq.mm Cable confirming to the GTP without switch,the other end of the wire shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. **Point wiring using Copper wire without Switch**. (P.No. 5, I.No. 2.2 of PWD Ele SR 2021-22)								
	2.2.1)Short point upto 3Mtr from tapping point to out let via		5				5.00		
							5.00	**251.00**	**1255.00**
		Nos							
	Basic Rate	251.00							
	Total Rate	**251.00**							
64	2.2.2)Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box		5				5.00		
							5.00	**361.00**	**1805.00**
		Nos							
	Basic Rate	361.00							
	Total Rate	**361.00**							
65	2.2.3)Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box		3				3.00		
							3.00	**542.00**	**1626.00**
		Nos							
	Basic Rate	542.00							
	Total Rate	**542.00**							
66	2.2.4)Two outlet in a row,above 3Mtr upto 6Mtr from tapping point to out let via switches		5				5.00		
							5.00	**671.00**	**3355.00**
		Nos							
	Basic Rate	671.00							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	Total Rate	671.00							
67	2.2.5)Three outlet in a row, above 6Mts upto 10Mtr from tapping point to out let via switches box		5				5.00		
							5.00	**979.00**	**4895.00**
	Basic Rate	**Nos**							
	Total Rate	979.00							
		979.00							
68	Suppling and fixing PVC/metal conduit **deep juction boxes** (P.No. 3, I.No. 1.5 of PWD Ele SR 2021-22)								
	1.5.1)19/20mm deep juction box		10				10.00		
							10.00	**49.00**	**490.00**
	Basic Rate	**Each**							
	Total Rate	49.00							
		49.00							
69	1.5.2) 25mm deep juction box		10				10.00		
							10.00	**51.00**	**510.00**
	Basic Rate	**Each**							
	Total Rate	51.00							
		51.00							
70	1.5.3) 32mm deep juction box		10				10.00		
							10.00	**69.00**	**690.00**
	Basic Rate	**Each**							
	Total Rate	69.00							
		69.00							
71	1.12)Suplay and fixing Metal Fan Box with Round Hook		15				15.00		
							15.00	**163.00**	**2445.00**
	Basic Rate	**Each**							
	Total Rate	163.00							
		163.00							
72	Supplying and flush mounting powder coated **metal box** suitable for mounting modular switch plates.The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall (P.No. 9, I.No. 3.4 of PWD Ele SR 2021-22)								
	3.4.1) 1-3Way		6				6.00		
							6.00	**123.00**	**738.00**
	Basic Rate	**Each**							
	Total Rate	123.00							
		123.00							
73	3.4.2) 4-5Way		5				5.00		
							5.00	**138.00**	**690.00**
	Basic Rate	**Each**							
	Total Rate	138.00							
		138.00							
74	3.4.3) 6 Way		5				5.00		
							5.00	**212.00**	**1060.00**
	Basic Rate	**Each**							
	Total Rate	212.00							
		212.00							
75	3.4.4) 8Way		2				2.00		
							2.00	**250.00**	**500.00**
	Basic Rate	**Each**							
	Total Rate	250.00							
		250.00							
76	3.4.5) 10-12Way		3				3.00		

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
							3.00	**325.00**	**975.00**
	Basic Rate	**Each**							
	Total Rate	325.00							
		325.00							
77	**Wiring for lighting /power circuit** using one of PVC insulated 1100v grade,multis and Copper conductor single core cable in open or consealed system of wiring.(P.No. 5, I.No. 2.3 of PWD Ele SR 2021-22)								
	2.3.2) 1.5 sqmm		1	300.00			300.00		
							300.00	**26.00**	**7800.00**
	Basic Rate	**mtr**							
	Total Rate	26.00							
		26.00							
78	2.3.3) 2.5 sqmm		1	300.00			300.00		
							300.00	**40.00**	**12000.00**
	Basic Rate	**mtr**							
	Total Rate	40.00							
		40.00							
79	2.3.4) 4 sqmm		1	350.00			350.00		
							350.00	**59.00**	**20650.00**
	Basic Rate	**mtr**							
	Total Rate	59.00							
		59.00							
80	2.3.3) 6 sqmm		1	300.00			300.00		
							300.00	**87.00**	**26100.00**
	Basic Rate	**mtr**							
	Total Rate	87.00							
		87.00							
81	Supplying and fixing of **modular switch**/Socket/stepped electeonic fan regulator/ dimmer/telephone socket etc on existing modular switch plate.(P.No. 10, I.No. 3.6 of PWD Ele SR 2021-22)								
	3.6.1) 6A mps one way		60				60.00		
							60.00	**88.00**	**5280.00**
	Basic Rate	**Each**							
	Total Rate	88.00							
		88.00							
82	3.6.2) 6A mps Two way		15				15.00		
							15.00	**152.00**	**2280.00**
	Basic Rate	**Each**							
	Total Rate	152.00							
		152.00							
83	3.6.4) Stepped fan regulator.		15				15.00		
							15.00	**313.00**	**4695.00**
	Basic Rate	**Each**							
	Total Rate	313.00							
		313.00							
84	3.6.8) 16Amps one way switch		5				5.00		
							5.00	**249.00**	**1245.00**
	Basic Rate	**Each**							
	Total Rate	249.00							
		249.00							
85	3.6.11) 6/16Amps univeral socket		5				5.00		
							5.00	**249.00**	**1245.00**
	Basic Rate	**Each**							
	Total Rate	249.00							
		249.00							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
86	Supplying and fixing superior gality modular **switch mounting polycorbonate plate** with neceaary supporting back plate with rquired nos. of machine screwes, bolts nuts etc., complete on the existing metal/PVC box.-(P.No. 10, I.No. 3.6 of PWD Ele SR 2021-22)								
	3.5.1) 1 to 3 Module		10				10.00		
							10.00	**152.00**	**1520.00**
	Basic Rate	**Each**							
	Total Rate	152.00							
		152.00							
87	3.5.2) 4 Module						10.00		
			10				**10.00**	**175.00**	**1750.00**
	Basic Rate	**Each**							
	Total Rate	175.00							
		175.00							
88	3.5.3) 6 Module						10.00		
			10				**10.00**	**244.00**	**2440.00**
	Basic Rate	**Each**							
	Total Rate	244.00							
		244.00							
89	3.5.4) 8 Module						4.00		
			4				**4.00**	**302.00**	**1208.00**
	Basic Rate	**Each**							
	Total Rate	302.00							
		302.00							
90	3.5.5) 10-12 Module						5.00		
			5				**5.00**	**363.00**	**1815.00**
	Basic Rate	**Each**							
	Total Rate	363.00							
		363.00							
91	Supplying and fixing regular **MCB distribution boards** on wall/ woodboard /flush mounting required clamps,bolts,nuts etc.. with provision for fixing suitable type capacity MCB's single phase /3 phase /single door with powder coated painting etc., complete (P.No. 27, I.No. 5.18 of PWD Ele SR 2021-22)								
	5.18.7) 8Way SP & N		1				1.00		
							1.00	**1695.00**	**1695.00**
	Basic Rate	**Each**							
	Total Rate	1695.00							
		1695.00							
92	5.18.8) 12Way SP & N		1				1.00		
	5.18.9						**1.00**	**2067.00**	**2067.00**
	Basic Rate	**Each**							
	Total Rate	2067.00							
		2067.00							
93	5.18.9) 4Way TP & N		1				1.00		
							1.00	**3053.00**	**3053.00**
	Basic Rate	**Each**							
	Total Rate	3053.00							
		3053.00							
94	5.18.10) 6Way TP & N		1				1.00		
							1.00	**3735.00**	**3735.00**
	Basic Rate	**Each**							
	Total Rate	3735.00							
		3735.00							

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Sl No	Description of work	Unit	Nos	Dimensions in m	Quantity	Rate in Rs	Amount in Rs.
86	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bulks nuts etc complete on the existing metal/PVC box (P.No 10, I.No 14 of PWD Ele SR 2021-22)						
	3.5.1) 1 to 3 Module		10		10.00 10.00	152.00	1520.00
	Basic Rate	Each 152.00					
	Total Rate	152.00					
87	3.5.2) 4 Module		10		10.00 10.00	175.00	1750.00
	Basic Rate	Each 175.00					
	Total Rate	175.00					
88	3.5.3) 6 Module		10		10.00 10.00	244.00	2440.00
	Basic Rate	Each 244.00					
	Total Rate	244.00					
89	3.5.4) 8 Module		4		4.00 4.00	302.00	1208.00
	Basic Rate	Each 302.00					
	Total Rate	302.00					
90	3.5.5) 10-12 Module		5		5.00 5.00	363.00	1815.00
	Basic Rate	Each 363.00					
	Total Rate	363.00					
91	Supplying and fixing regular **MCB distribution boards** on wall/ woodboard /flush mounting required clamps,bolts,nuts etc.. with provision for fixing suitable type capacity MCB's single phase /3 phase /single door with powder coated painting etc., complete (P.No. 27, I.No. 5.18 of PWD Ele SR 2021-22)						
	5.18.7) 8Way SP & N		1		1.00 1.00	1695.00	1695.00
	Basic Rate	Each 1695.00					
	Total Rate	1695.00					
92	5.18.8) 12Way SP & N 5.18.9		1		1.00 1.00	2067.00	2067.00
	Basic Rate	Each 2067.00					
	Total Rate	2067.00					
93	5.18.9) 4Way TP & N		1		1.00 1.00	3053.00	3053.00
	Basic Rate	Each 3053.00					
	Total Rate	3053.00					
94	5.18.10) 6Way TP & N		1		1.00 1.00	3735.00	3735.00
	Basic Rate	Each 3735.00					
	Total Rate	3735.00					

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
95	Supplying and fixing and wiring **Earth Leakage Miniature Circuit Breaker** (RCCB) 240/450V up 300mA sensitivity on existing wood/panel board (P No. 28, I No. 5.19 of PWD Ele SR 2021-22) 5 19 4								
	(5.19.2)32-40 Amps 2 Pole		2				2.00		
							2.00	4831.00	9662.00
		Each							
	Basic Rate	4831.00							
	Total Rate	4831.00							
96	(5.19.3)32-40 Amps 4 Pole		2				2.00		
							2.00	4677.00	9354.00
		Each							
	Basic Rate	4677.00							
	Total Rate	4677.00							
97	Supplying, fixing, wiring, **earth electrode for grounding conduits**, I.C. cutouts and other equipment's on the meter board using 40mm dia & 90mm thick GI pipe 2.5 mtr long buried in a pit. The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3 of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia (P No.40, I No. 6.1 of PWD Ele SR 2021-22) 19 20								
			1				1.00		
							1.00	2999.70	3000.00
		Each							
	Basic Rate	2999.70							
	Total Rate	2999.70							
98	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.0mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. (P No.40, I.No. 6.2 of PWD Ele SR 2021-22)								
			1				1.00		
							1.00	4150.00	4150.00
		Each							
	Basic Rate	4150.00							
	Total Rate	4150.00							
99	Supplying and running of GI/**Copper strips for grounding connections**, using necessary fixing materials as required. (P No. 55, I.No. 7.3 of PWD Ele SR 2021-22) 632								
	GI strip ((7.3.2)25x6mm)		1	40.00			40.00		
							40.00	118.00	4720.00
		Mtr		118.00					
	Basic Rate	118.00							
	Total Rate	118.00							
100	Copper strip ((7.3.6)25x3mm)		1	25.00			25.00		
							25.00	523.00	13075.00
		Mtr							
	Basic Rate	523.00							
	Total Rate	523.00							

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
101	Copper strip ((7.22.6)8SWG copper wire)		1	15.00			15.00		
							15.00	**107.70**	**1616.00**
	Basic Rate	**Mtr**							
	Total Rate	107.70							
		107.70							
102	Supplying of **2 feet LED PVC square batten** with high quality diffuser with ife of 25000 burninng hours & 70% lumen maintance with CRI>80. power input :220-240V @ 50 hz & power factor >.9 along with CE approved drivers. 5 years warranty (P.No. 34, I.No. 11.3 of PWD Ele SR 2021-22)								
	12.3.2)LED light fitting 1x4' - 20/22w		6				6.00		
							6.00	**740.00**	**4440.00**
	Basic Rate	**Each**							
	Total Rate	740.00							
		740.00							
103	Supplying of recess mounting non integrated type **LED down light** 15-18W luminaire comprising of pressure decast/ extruded aluminium housing, with spring loaded false ceiling clA, LED of Power/COB with CCT 6500 degree K, CRI> 70%. efficacy >100 lumen per W, 120degree beam spread, life> 25000 burning hours and Compliance to IS10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LED's are driven by HF electronic driver integrated in a separate control gear assembly., with PF > 0.95, power loss should< 5% of lamp Wage, short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 V. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. (P.No. 34, I.No. 11.4 of PWD Ele SR 2021-22)								
			30				30.00		
							30.00	**2174.00**	**65220.00**
	Basic Rate	**Each**							
	Total Rate	2174.00							
		2174.00							
104	**Fixing all types** and all capacities of fluorescent / **fales ceiling /spot light /CFL / LED fittings** indoor on the wall /ceiling / refters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps .(P.No. 34, I.No. 13.7 of PWD Ele SR 2021-22)								
	13.7.1 On wall/ ceiling / Rafter / Girders		36				36.00		
							36.00	**119.00**	**4284.00**
	Basic Rate	**Each**							
	Total Rate	119.00							
		119.00							

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Sl No	Description of work	Unit	Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
105	Supplying **exhaust fan** of 1440 RPM of 300 mm (12") size with bracket blades complete for light duty suitable for operate of 230V 50Hz, AC Supply (P No. 22, I No. 6.1 of PWD Ele SR 2021-22)								
			6				6.00 **6.00**	**1542.00**	**9252.00**
	Basic Rate	**Each**							
	Total Rate	1542.00 **1542.00**							
106	**Cutting holes** of required size in brick masonry wall for fixing of **exhaust fan** including providing and fixing 100 mm dia PVC pipe conforming BIS-12818 and making good the same etc complete as per direction of Engineer-in-charge (P No. 128, I No. 14.31 of PWP & IWTD SR 2021-22,Vol-II) P-177 ; 20.45								
			6				6.00 **6.00**	**110.00**	**660.00**
	Basic Rate	**Each**							
	Area Weightage @ 10%	100.00 10.00							
	Total Rate	**110.00**							
107	Supplying capacitor type **ceiling fan** complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles, Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm)(P No. 22, I No. 6.4 of PWD Ele SR 2021-22) 6.4.1								
	6.4.1)Regular model (Khaitan, Crompton Greaves, Orient, Polar, Bajaj, Usha, Havells, Almonard)		20				20.00 **20.00**	**2949.00**	**58980.00**
	Basic Rate	**Each**							
	Total Rate	2949.00 **2949.00**							
108	Supplying **wall mounting fan** suitable to operate at singlephase 230v AC. supply. (1200mm) 400 mm Sweep (P No. 22, I No. 6.5.2 of PWD Ele SR 2021-22)								
			8				8.00 **8.00**	**2838.00**	**22704.00**
	Basic Rate	**Each**							
	Total Rate	2838.00 **2838.00**							

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Sl No	Description of work	Unit	Nos	Dimenstions in m	Quantity	Rate in Rs.	Amount in Rs.
109	Supplying, installing, testing and commissioning of **Diesel Generator** set with following specifications. Power rating as per standard reference condition as per-BS 5514/ISO 3046/ ISO 8528 & IS 1002/ISO 3046 Generator set specifications. Engine: Diesel generating set are rated at 1500RPM and conform to ISO 8528 specifications. The engines are radiator cooled, four stroke and multi cylinder, conforming to ISO 3046. The scope of supply includes: Electrical starter motor12V DC Battery charging alternator, Bosch fuel system with mechanical governor, A1 Class. Spin-on lube oil filter, Spin-on dual fuel filter with water separator, Turbocharger, Charge air cooler, Silencer (Hospital grade), Dry type air cleaner, Shutoff coil, Flywheel and flywheel housing, First fill of lube oil and coolant, Safety for low lube oil pressure, Safety for high water temperature, Permissible overload of 10% for one hour in 12 hours of operation Capacity of Fuel Tank: Fuel tank suitable for 8 hours of operation Alternator: Alternator is suitable for operation at 1500 RPM, 415 V, 0.8 pf (lag) suitable for 50 Hz, 3 phase, 4 wire systems, conforming to IS/IEC 60034-1. The Alternator is brush less type, screen protected, revolving field, self excited, self regulated through an AVR. The alternator shall have± 1.0% Voltage regulation (max) in static conditions- IP: 23 protections with insulation class F&H Mounting arrangement: Engine and alternator are mounted on a common MS fabricated base frame with AVM pads.Control Panel: The control panel is manufactured with 14/16 gauge CRCA sheet and is powder coated for weather-proof and long lasting finish. The control panel consists of the following parts:- PS0500 Controller, Aluminium bus bars with suitable capacity within/outgoing terminals, Indicating lA for 'Load On' and 'Set Running', Instrument fuses duly wired and ferruled, MCCB of suitable rating with overload and short circuit protections. Genset Controller: microprocessor based generator set monitoring and control system. The control provides a simple operator interface to the generator set, manual and remote start/ stop control, shutdown fault indication, and an LCD hour counter. The integration of all functions into a single control system provides enhanced reliability and performance compared to conventional generator set control systems. This control has been designed and tested to meet harsh environment in which gensets are typically applied. Features, Functions, protections 16 character x 2 line alphanumeric LCD display with LED Backlight.						
	Operator interface, Provide a record of most recent fault conditions. Fault history stored in the control non volatile memory, Provide Alternator Data. Voltage (1 ph or 3 ph line to line and line to neutral voltage, Current (1 ph or 3 ph), kVA (3 ph and total), Frequency, Provide Engine Data, Starting battery voltage, Engine running hours, Engine Temp, Engine oil pressure, Control includes provision for Service adjustment and calibration of DG control functions, Voltage, frequency selection, Configurable input and output set up, Meter calibration, Engine controls, Power Start operates on 12 VDC batteries,-Auto start mode accepts a ground signal from remote devices to automatically start the DG set The remote start will also wake up the control system from sleep mode. Engine Starting -The control system supports automatic engine starting, Primary and back up start disconnects are achieved by battery charging alternator feedback or main alternator output frequency. Controller provide configurable time delay of 0-300 sees to start after remote start signal and time delay of 0-600secs prior to shut down after stop signal. Sleep mode increase battery life. Configurable current settings from low to minimize current draw when genset is not working. Engine Protective functions include, Configurable alarm output, Emergency stop: Annunciated whenever an emergency stop signal is received by the control. Low lube oil pressure warning and Shutdown, High engine water temp warning / Shutdown, Low coolant temp warning, Sensor failure indication, Low and high battery voltage warning, Weak battery warning, Fail to start shut down, Cracking lockout: Control will not allow the starter to engage or to crank the running engine Cyclic cranking: Configurable for the number of starting cycle, (1 to 7) and duration of crank and rest periods. Alternator Protective functions includes, - High and Low AC voltage shut down, Under and Over frequency shutdown / warning, Loss of sensing voltage input shut down.Acoustic enclosure: The acoustic enclosure shall be made of 1.6 mm thick CRCA sheets in suitable approved shade and a structural/ sheet metal base frame painted in black. The walls of the enclosure are insulated with fire retardant foam so as to comply with the 75dBA at 1 m sound levels specified by Ministry of Environment & Forest The enclosure has the following features: Specially designed to meet stringent MOEF/CPCB norms of 75dBA @ 1 m at 75% load under free field conditions, Two point lifting for easy handling at customer site, Designed to have optimum						
	Powder coated for long lasting service life and superior finish, With UV resistant powder coating, can withstand extreme environment,Use of special hardware for longer life, Insulation material meets exacting IS 8183 specifications for better sound attenuation, Flush styling - no projections, Fluid drains for lube oil and fuel, Fuel filling point inside the enclosure. The complete set shall have sufficient safety and adhere to NEC, NBC 2016, IEC, CPWD specifications, PCB norms and KSGEI Acts and Rules..(P.No. 32, I.No. 10.1.1 of PWD Ele SR 2021-22)						

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Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
	15 kVA/12kW		1				1.00		
							1.00	352568.00	352568.00
		Each							
	Basic Rate	352568.00							
	Total Rate	352568.00							
110	**Disposal of building rubbish / malba / similar unserviceable**, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge to the appropriate disposal area. (P.No. 169, I.No.19.57 of PWP & IWTD SR 2021-22)								
				Refer Item no -01, 02 & 03			173.54		
				Refer Item no - 34			1.28		
							174.82	62.70	10961.00
		Cum							
	For Loding and Unloding	57.00							
	Area Weightage @ 10 %	5.70							
	Total	62.70						BESCOM CHARGES	400000.00
								Sub Total-A	8744542.00
								GST 12%	1049345.04
								For DPR Charges 1.0%	100000.00
								For PMC Charges 1.0%	100000.00
								Grand Total	9993887.04
								Miscellaneous	6112.96
								Total Amount	10000000.00

CERTIFICATE

1. Certified that I personally visited the spot.
2. Certified that only required items are incorporated in the estimate.
3. Certified that the work is essential and required.
4. Estimate is prepared on the basis of PWD SR for the year 2021-22
5. This area comes under the BBMP limits.

For Civil Shine Engineering Consultants

CIVIL SHINE ENGINEERING CONSULTANTS Bangalore

Assistant Engineer
Project Division, Yelahanka
BBMP Bangalore

Assistant Executive Engineer
Project Division, Yelahanka
BBMP Bangalore

Executive Engineer
Project Division, Yelahanka
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